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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A one-piece golf ball formed by vulcanization from a rubber composition composed of 100 parts by weight of rubber base material, 10 to 40 parts by weight of unsaturated carboxylic acid, 10 to 60 parts by weight of metal oxide, and 0.9 to 5 parts by weight of organic peroxide, said rubber base material containing 60 to 100 % by weight based on the weight of a polybutadiene which is synthesized with a catalyst of rare earth element, contains no less than 60% of cis-1,4-linkage, and has a Mooney viscosity ($ML_{1+4}(100^{\circ}C)$) no less than 4052.

2. (original): The one-piece golf ball of claim 1, wherein the polybutadiene is one which has a molecular weight distribution M_w/M_n of 2.0 to 8.0 (where M_w stands for weight-average molecular weight and M_n stands for number-average molecular weight).

3. (original): The one-piece golf ball of claim 1, wherein the polybutadiene is one which is obtained by synthesis with an Nd-based catalyst and subsequent reaction with a terminal modifier.

4. (original): The one-piece golf ball of claim 1, wherein the rubber base material contains, in addition to the polybutadiene, no more than 40 % by weight of a second polybutadiene which is synthesized with a catalyst of Group VIII element and has a Mooney viscosity ($ML_{1+4}(100^{\circ}C)$) less than 50.

5. (original): The one-piece golf ball of claim 4, wherein the second polybutadiene is one which has a molecular weight distribution M_w/M_n of 3.0 to 6.0 and a solution viscosity no less than 100 mPa·s and no more than 500 mPa·s in toluene (5 % by weight) at 25°C.

6. (original): The one-piece golf ball of claim 1, wherein the rubber base material contains (based on 100 parts by weight) 0.2 to 5 parts by weight of organic sulfur compound.

7. (original): The one-piece golf ball of claim 1, wherein the rubber composition contains two or more kinds of organic peroxide, the one with a shortest half-life (at 155°C) being designated as (a) and the other with a longest half-life being designated as (b), such that the ratio b_t/a_t is no less than 7 and no more than 20, where a_t denotes the half-life of (a) and the b_t denotes the half-life of (b).

8. (new): A one-piece golf ball formed by vulcanization from a rubber composition composed of 100 parts by weight of rubber base material, in addition to the polybutadiene, no more than 40 % by weight of a second polybutadiene which is synthesized with a catalyst of

Group VII^X element and has a Mooney viscosity (ML₁₊₄(100°C)) less than 50 and has a molecular weight distribution Mw/Mn of 3.0 to 6.0 and a solution viscosity no less than 100 mPa•s and no more than 500 mPa•s in toluene (5 % by weight) at 25°C, 10 to 40 parts by weight of unsaturated carboxylic acid, 10 to 60 parts by weight of metal oxide, and 0.9 to 5 parts by weight of organic peroxide, said rubber base material containing 60 to 100 % by weight based on the weight of a polybutadiene which is synthesized with a catalyst of rare earth element, contains no less than 60% of cis-1,4-linkage, and has a Mooney viscosity (ML₁₊₄(100°C)) no less than 40.

9. (new): A one-piece golf ball formed by vulcanization from a rubber composition composed of 100 parts by weight of rubber base material, 10 to 40 parts by weight of unsaturated carboxylic acid, 10 to 60 parts by weight of metal oxide, 0.2 to 5 parts by weight of organic sulfur compound and 0.9 to 5 parts by weight of organic peroxide, said rubber base material containing 60 to 100 % by weight based on the weight of a polybutadiene which is synthesized with a catalyst of rare earth element, contains no less than 60% of cis-1,4-linkage, and has a Mooney viscosity (ML₁₊₄(100°C)) no less than 40.

10. (new): A one-piece golf ball of claim 8, wherein the rubber composition contains (based on 100 parts by weight) 0.2 to 5 parts by weight of organic sulfur compound.